Abstract

The introduction of new technologies has been adopted as a strategy in the search for better energy efficiency, better environmental quality for users and reduction of environmental impacts. Such examples of this strategy are the installation of automation systems and/or their integration with existing systems in buildings. Regarding the environmental quality, studies related to the thermal comfort show that temperatures outside a comfort zone can affect the productivity and well-being of the users. Knowing that, in most cases, the temperature control of the environment is performed through types of equipment that have a significant share in the energy consumption of buildings, the motivation to develop researches that contribute to proposals and discussions of solutions for better energy efficiency while maintaining the thermal comfort of users. In this regard, this paper describes the use of ambient intelligence as a solution to model and control the behavior of a system involved in building automation and contributing to a significant optimization in terms of comfort and energy saving.
References


Index Terms

Computer Science Information Systems

Keywords
Smart buildings, Multi-Agent Systems, Thermal comfort, JADE platform